

Polymer Electrolyte with Aromatic Sulfone Crosslinking

Abstract

5 A method is provided for obtaining crosslinked polymers having pendent sulfonic acid groups by crosslinking through the sulfonic acid groups or their precursors with aromatic crosslinkers or aromatic pendent crosslinking groups to form aromatic sulfones. Such crosslinked polymers may be used to make polymer electrolyte membranes (PEM's) that may be used in electrolytic cells such as fuel cells.

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